

1849 to 1898

July 10-93 to Aug 23<sup>1894</sup>  
Apr. 1894

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1849 to 1898

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

1849

Date,

July 10<sup>th</sup> 1893

Time of day, 10.10 am ; of tide,

Flood

Locality,

2 1/2 Miles S of Morris Land

Exact position,

Gay Head S 1/4 S 1/4 1/8 E 9 miles

Cullyhunk S 1/4 S 1/4 W 1/2 W 14 1/2 miles

Depth,

15 fms

Nature of bottom,

Hard &amp;

Dredging instrument used,

Beam Trawl

Direction of drift,

S 2 E

; distance,

1/4 mile

Temperature of air,

7

therm. No.,

"

of surface water,

64

"

"

at depth of

fathoms,

"

"

at bottom,

"

Density at surface,

20.24.2

temp.,

"

at depth of

fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

30.09

State of sky,

b, c, s

Direction of wind,

north

; force,

2

Rain,

Direction of surface current,

; force,

"

of bottom

"

; force,

Name of vessel,

U S F C Ste Fish Hawk

Service to which attached,

U S F C

Name and rank of commanding officer,

Robert Platt

Lieut - U S N

Name and position of observer,

J. M. Lighton  
Master

NOTES RELATING TO STATION NO. 1849

Hake Grounds  
Whitings and Hake  
Skate

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1850*  
 Date, *July 10 1893*  
 Time of day, *10.30 a.m.* : of tide. *Flood*  
 Locality, *4 1/2 miles S of No man's Land*  
 Exact position, *Gay Head S-N 4 1/4 E 10 1/2 miles*  
*Leuttybank S-N 4 1/4 W 16 miles*  
 Depth, *17 fms*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *N E* ; distance, *1/4 mile*  
 Temperature of air, *68* therm. No.,  
 " of surface water, *64* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.02412* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.09*  
 State of sky, *clear*  
 Direction of wind, *SW* ; force, *2*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut - U.S.N.*  
 Name and position of observer, *Imberight*  
*Matthys*

NOTES RELATING TO STATION NO. 1850.

Hake Skate Flounders  
Hemlock - G. & H. Sand Hake

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1851*  
 Date, *July 10 1893*  
 Time of day, *10.58 AM* : of tide. *Flood*  
 Locality, *4 1/2 miles SSW of Thomas Land*  
 Exact position, *Gay head S to N 1/4 S 10 1/4 miles*  
*Cuttyhunk S to N 1/4 W 15 miles*  
 Depth, *15 fms 3 ft*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *NE* ; distance, *1/2 mile*  
 Temperature of air, *67* therm. No.,  
 " of surface water, *64* ..  
 " at depth of fathoms, ..  
 " at bottom, ..  
 Density at surface, *1.02412* temp.,  
 " at depth of fathoms, ..  
 " at bottom, ..  
 Number of salinometer,  
 Barometer reading, *30.09*  
 State of sky, *Bclear*  
 Direction of wind, *North* ; force, *1*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *U.S.F.C. Ste Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut USN*  
 Name and position of observer, *John L. Lighthouse*  
*W. H. M. N. S.*

NOTES RELATING TO STATION NO. 1851

Sea Anemone Flounders Skate  
Land dollar starfish hermit  
Crabs skate

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1852*  
 Date, *July 10 1892*  
 Time of day, *11:24 AM* ; of tide, *Flood*  
 Locality,  
 Exact position, *Gay head S 140 N 2 1/2 E 10 miles*  
*Castly head S 140 N 1/2 W 2 1/2 miles*  
 Depth, *13 fms 30*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *SE* ; distance, *3 miles*  
 Temperature of air, *67* therm. No.,  
 " of surface water, *64* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0242* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.09*  
 State of sky, *b, c, a*  
 Direction of wind, *South* ; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U S F C Fish Hawk*  
 Service to which attached, *U S F C*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut. J. G. M.*  
 Name and position of observer,  
*William H. Mather*

NOTES RELATING TO STATION NO. 1852

Skate Lake Founders  
sand hollow none fine

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1853*Date, *July 10 1883*Time of day, *10 AM* : of tide, *Flow*Locality, *Block Island Sound*Exact position, *Lay head S 1/2 W 1/4 N 5 3/8 mile**Castletowne S 1/2 W 1/4 N 3/8 W 9 miles*Depth, *5 fms*Nature of bottom, *Hard*Dredging instrument used, *Beam Trawl*Direction of drift, *NNE* ; distance, *1/4 mile*Temperature of air, *67* therm. No.," of surface water, *64* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.02412* temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.1*State of sky, *Clear*Direction of wind, *W + W* ; force, *1*

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, *U.S. Fish Hawk*Service to which attached, *U.S.F.C.*Name and rank of commanding officer, *Robert Platt**Lieut. U.S.N.*

Name and position of observer,

*John H. Johnston  
Master U.S.N.*

NOTES RELATING TO STATION NO. 1873

Scallop on rock in water  
Starfish common

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1854*  
 Date, *July 18<sup>th</sup> 1892*  
 Time of day, *1.40 Pm*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Long Island Sound N 42 E 7 1/4 miles*  
 Depth, *17 fms*  
 Nature of bottom, *Mud*  
 Dredging instrument used, *Beam trawl*  
 Direction of drift, *N E*; distance, *1/2 mile*  
 Temperature of air, *67* therm. No.,  
 " of surface water, *64* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0242* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.09*  
 State of sky, *clear*  
 Direction of wind, *W*; force, *1*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U.S.F.C. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *John H. ...*  
 Name and position of observer, *John H. ...*

NOTES RELATING TO STATION NO. 107

1. The station is located on the left bank of the river, about 100 yards upstream from the confluence of the river into the lake.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

1855

Date,

July 10 1897

Time of day,

2:40 Pm

Locality,

Black Sea Sound

Exact position,

Gulf of Mexico 2 1/2 miles

Depth,

14 fathoms

Nature of bottom,

H. S.

Dredging instrument used,

Pump Trawl

Direction of drift,

North

; distance,

1/2 mile

Temperature of air,

67

therm. No.,

"

of surface water,

64

"

"

at depth of

fathoms,

"

"

at bottom,

"

Density at surface,

1.0242

temp.,

"

at depth of

fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

30.09

State of sky,

Clear

Direction of wind,

N. N. W.

; force,

2

Rain,

Direction of surface current,

; force,

"

of bottom

"

; force,

Name of vessel,

U. S. Fish Com. Steamer Fish Hawk

Service to which attached,

U. S. Fish Com.

Name and rank of commanding officer,

Robert Platt

Name and position of observer,

Lieut. W. B. Smith

NOTES RELATING TO STATION NO. 117

... .. Skate  
... ..  
... ..  
... ..

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No., 1856

Date, July 12

Time of day, 2:56 P.M. of tide, Flood

Locality, Vineyard Sound

Exact position, Gunhead Pt. 2 1/2 miles

Cuttyhunk 2 1/2 miles N. by 8 1/2 miles S. 1/2 "

Depth, 14 fms

Nature of bottom, Sand

Dredging instrument used, Beam trawl

Direction of drift, N. x E ; distance, 1/4 mile

Temperature of air, 66 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.04

State of sky, Clear

Direction of wind, N. x E ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Com. Steamer Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer,

J. H. Brown

Name and position of observer,

NOTES RELATING TO STATION NO. 1876.

Handwritten notes in cursive script, including the words "Hermit" and "Grass".

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1857*  
 Date. *July 1* : *3*  
 Time of day. *3.26 PM* : of tide. *High*  
 Locality. *Weymouth Sound*  
 Exact position. *Between the two streets 2 1/2 miles*  
*Leithy bank to 100* *Street to 6 1/2*  
 Depth, *13 fms*  
 Nature of bottom, *Ho. S*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *N E* ; distance, *1/4 mile*  
 Temperature of air, *66* therm. No.,  
 " of surface water, *66* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.024* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.09*  
 State of sky, *Clear*  
 Direction of wind, *N E* ; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U.S.F.C. Steamer*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robert H. Pratt*  
*Lieut. U.S.A.*  
 Name and position of observer, *John H. Pratt*  
*Master*

NOTES RELATING TO STATION NO.

Skate

4:00

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1858*  
 Date, *July 10 1882*  
 Time of day, *3:45 P.M.*; of tide, *Flood*  
 Locality, *Wine & S. Sound*  
 Exact position, *Gayhead L. No 5 1/2 m 7 1/2 m 3 miles*  
*Cent. L. No 11 1/4 m 5 1/8 miles*  
 Depth, *14 fms 2 ft*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *S x E*; distance, *1/4 mile*  
 Temperature of air, *66* therm. No.,  
 " of surface water, *64* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *0.24* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.29*  
 State of sky, *Clear*  
 Direction of wind, *W x W*; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U. S. F. C. Fish Hawk*  
 Service to which attached, *U. S. F. C.*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut. U. S. F.*  
 Name and position of observer,

NOTES RELATING TO STATION NO. 18

1. The station is located on the  
left bank of the river, about  
1/2 mile above the confluence  
of the river into the lake.  
The station is a small  
structure, about 10 feet  
high, with a small  
cupola on top.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

1859

Date,

July 12' 1893

Time of day,

9:15 Am : of tide. Flood

Locality

Peopah Bay

Exact position,

Alaska side E 3 E 5 1/2 miles

Depth,

8 fms

Nature of bottom,

Muddy

Dredging instrument used,

Beaman Trawl

Direction of drift,

NW

: distance,

1/4 mile

Temperature of air,

68

therm. No.,

"

of surface water,

65

"

"

at depth of fathoms,

"

"

at bottom,

"

Density at surface,

1023.4

temp.,

"

at depth of fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

30.18

State of sky,

b. m. c.

Direction of wind,

SW

; force,

2

Rain,

Direction of surface current,

: force,

"

of bottom

"

: force,

Name of vessel,

U. S. S. Fish Hawk

Service to which attached,

U. S. F. C.

Name and rank of commanding officer,

Robert Platt

Name and position of observer,

J. H. H. H.

NOTES RELATING TO STATION NO. 187

Home shell ~~water~~ ~~water~~ ~~water~~  
Rock in ~~water~~ ~~water~~ ~~water~~

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1860

Date, July 12<sup>th</sup> 1883

Time of day, 9.40 ; of tide, Flood

Locality, Buzzard Bay

Exact position, 10 miles S. of N. 88° E. 1/2 S. 5 1/2 miles

Wind, S.W. 10 m.p.h. 7 1/2 miles

Depth, 8 fms 3 ft

Nature of bottom, Muddy

Dredging instrument used, Beam Trawl

Direction of drift, N. E. ; distance, 1/4 mile

Temperature of air, 69 therm. No.,

" of surface water, 65 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023.2 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.18

State of sky, B. cloudy

Direction of wind, S. W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. Steamer Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, Robert R. Ketchum

Lieut. U. S. N.

Name and position of observer,

J. L. Smith  
Master

NOTES RELATING TO STATION NO. 1860

Shell Grass worms  
black mud.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1861*

Date, *July 29 1893*

Time of day, *2.30 PM*; of tide, *1/2 flood*

Locality, *Eastern Harbor Mo*

Exact position, *Friars Head S by 1/4 W 1 1/16 miles*

*Pointe à Pitre S by 1/4 W 1 3/4 miles*

Depth, *18 fathoms*

Nature of bottom, *hard*

Dredging instrument used, *Beam Trawl*

Direction of drift, ; distance,

Temperature of air, *63* therm. No.,

" of surface water, *51* "

" at depth of *18* fathoms, *57* "

" at bottom, *51* "

Density at surface, *1025.6* temp., *51°*

" at depth of fathoms, "

" at bottom, *1025.4* " *51°*

Number of salinometer,

Barometer reading, *29.94*

State of sky, *cloudy & rainy*

Direction of wind, *SSW*; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U.S. Steamer Fish Hawk*

Service to which attached, *U.S. Fish*

Name and rank of commanding officer, *Robert Platt*

*Lieut. U.S.N.*

Name and position of observer,

*John H. ...  
Master*

NOTES RELATING TO STATION NO. 1861.

1 star fish 2 skulp. Sponges  
Tunicates (Balanus)  
Hyalinaster (Balanus)  
Sponges, etc. sea urchins  
etc. 2 Scudinae and  
one Ophiurian embedded  
in sponge. Fossils =  
Balanus, etc.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

1862

Date,

July 29, 1893

Time of day,

5 PM

: of tide,

1/2 flood

Locality,

Eastport Harbor

Exact position,

Trinhead S by E 1 1/2 miles

Cable House to S by E 2 3/4 miles

Depth,

30 fathoms

Nature of bottom,

hard

Dredging instrument used,

Beam Trawl

Direction of drift,

; distance,

Temperature of air,

63

therm. No.,

"

of surface water,

50

"

"

at depth of fathoms,

"

"

at bottom,

"

Density at surface,

1025.2

temp.,

50

"

at depth of fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

29.90

State of sky,

Cloudy &amp; rainy

Direction of wind,

SSE

: force,

2

Rain,

Direction of surface current,

: force,

"

of bottom

"

: force,

Name of vessel,

U.S. Fish Hawk

Service to which attached,

U.S. Fish

Name and rank of commanding officer,

John H. Smith

Name and position of observer,

Lieut. W. B. N.

A. H. M. Smith

A. H. M. Smith

NOTES RELATING TO STATION NO. 1862.

Sponge 3 Sea Raven 2 Skulpin  
Mussel shell, small small  
little star fish. Barnacles,  
Shrimp, Tricardes, Annelids,  
1. agnoid

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1863*  
 Date, *August 9 1893*  
 Time of day, *11 52 AM*; of tide,  *slack*  
 Locality, *St. Louis River Channel*  
 Exact position, *about 1/2 mile S. of*  
*St. Louis, St. E & N 1/4 N 2 miles*  
 Depth, *13 fms*  
 Nature of bottom, *soft*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *S. E* ; distance, *1/2 mile*  
 Temperature of air, *70* therm. No.,  
 " of surface water, *55* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0244* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.10*  
 State of sky, *clear*  
 Direction of wind, *South* ; force, *2*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *U. S. Fish Hawk*  
 Service to which attached, *U. S. F.*  
 Name and rank of commanding officer, *Wm. H. ...*  
 Name and position of observer, *...*

NOTES RELATING TO STATION NO. . .

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1864

Date, Sept 23<sup>d</sup> 1885Time of day, 10<sup>30</sup> am ; of tide,

Locality Mouth of Connecticut

Exact position, Thimble Shoar Light 11 7/8 miles

Cape Henry Light 11 1/2 miles

Depth, 11 fms

Nature of bottom, sand

Dredging instrument used, Beam Trawl

Direction of drift, E X S ; distance, 1 mile

Temperature of air, 79 therm. No.,

" of surface water, 75 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.97

State of sky, Cloudy

Direction of wind, S.W. ; force,

Rain.

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Com. Steamer

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, Lieut. Hunt

Lieut. Hunt

Name and position of observer,

NOTES RELATING TO STATION NO. 111

111

Crab 111  
Crab 111

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1860*  
 Date, *September 10*  
 Time of day, *10:30*; of tide, *ebb*  
 Locality, *Month Lake, N. Y.*  
 Exact position, *Thimble Shoar N. & W. 12 1/2 miles*  
*Cape Henry S. & W. 5 1/2 S 1 1/4 miles*  
 Depth, *10, 2*  
 Nature of bottom, *sand*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *E 1/2 S*; distance, *1/2 mile*  
 Temperature of air, *66* therm. No.,  
 " of surface water, *75* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *11.73.6* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.0*  
 State of sky, *b, c, s*  
 Direction of wind, *variable*; force,  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U. S. Fish Com. Fish Hawk*  
 Service to which attached, *U. S. Fish Com.*  
 Name and rank of commanding officer, *Robert Platt*  
*1st Lt. U. S. N.*  
 Name and position of observer,  
*W. H. Mather*



# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1866*  
 Date, *September 23, 1885*  
 Time of day, *11:50 am*; of tide, *ebb*  
 Locality,  
 Exact position, *Phimble St No 4 R 40 R 7/8 W 13 1/2 miles*  
*Cape Mary St No 3 R 40 R 7/8 W 1 1/4 miles*  
 Depth, *10*  
 Nature of bottom,  
 Dredging instrument used, *Long Beach*  
 Direction of drift, *E x S*; distance, *1/4 mile*  
 Temperature of air, *81* therm. No.,  
 " of surface water, *79* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *16,192*  
 Barometer reading, *29.96*  
 State of sky, *Clear*  
 Direction of wind, *East*; force, *1*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " : force,  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *John T. Platt*  
*First Lieut.*  
 Name and position of observer,

NOTES RELATING TO STATION NO. 150

Synallaxis striata Front  
Cassidix exilis 10. 10. 10.  
Hogchokers white legs  
white winged

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1867*  
 Date, *Sept 11, 1888*  
 Time of day, *11:15 AM*; of tide, *ebb-*  
 Locality, *Month Lake, Penn.*  
 Exact position, *Thimble Shoar N 4 W 14 5/8 miles*  
*Cape Henry S 40 W 7/8 S 2 3/8 miles*  
 Depth, *10 fms.*  
 Nature of bottom, *fine s.*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *S E*; distance, *1/4 mile*  
 Temperature of air, *79* therm. No.,  
 " of surface water, " "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0138* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *29.96*  
 State of sky, *Clear*  
 Direction of wind, *S E*; force, *1*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U S F C Ste. Fish Hawk*  
 Service to which attached, *U S F C*  
 Name and rank of commanding officer, *Robert Platt*  
*Ensign U. S. N.*  
 Name and position of observer,  
*Leahy*  
*Master U. S. N.*

NOTES RELATING TO STATION NO. 117

Small amount of water  
seen - about 1/2 inch  
- 1/2 inch  
- 1/2 inch  
- 1/2 inch

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *21*Date, *August 1, 1894*Time of day, *10:30*; of tide, *low*Locality, *off Cape Henry*Exact position, *3 miles S. by E. from Cape Henry light**Cape Henry light 1 1/4 to 2 1/2 miles*Depth, *10 fathoms*Nature of bottom, *fine sand*Dredging instrument used, *beam trawl*Direction of drift, *S. by E.*; distance, *1/2 mile*Temperature of air, *79* therm. No.," of surface water, *77* "" at depth of *10* fathoms, "

" at bottom, "

Density at surface, *1.0256* temp.," at depth of *10* fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *29.8*State of sky, *b, c, s*Direction of wind, *S E*; force, *2*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U. S. Fish Com. Steamer Fish Hawk*Service to which attached, *U. S. Fish Com.*Name and rank of commanding officer, *James H. Smith*Name and position of observer, *James H. Smith*

NOTES RELATING TO STATION NO. 111

On the 11th of June 1900, the following notes were taken at Station No. 111.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1869

Date, September 25<sup>th</sup> 1898

Time of day, 1:20 : of tide.

Locality, Chesapeake Bay

Exact position, Calver, Tan. Lt. NE 4 1/2 N 7 1/2 E 1/2 m

S. of Plantation Lt. 5 1/4 S 1 1/2 E 1/2 m

Depth, 21 fathoms

Nature of bottom, shells &amp; coral

Dredging instrument used, beam trawl

Direction of drift, S.W. ; distance, 1/2 mile

Temperature of air, 82 therm. No.,

" of surface water, 74 " 50.40

" at depth of fathoms, " "

" at bottom, " "

Density at surface, 1.018. temp., 74

" at depth of fathoms, " "

" at bottom, " "

Number of salinometer, 7043

Barometer reading, 30.06

State of sky, clear

Direction of wind, S.W. ; force, 3

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S.S. Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, Z. Tanner, Lt. Comdr.

Name and position of observer, J. H. Tanner, Lt. Comdr.

NOTES RELATING TO STATION NO. 1869.

2. Available by 3.10

3.10 10 10 10 10

4.10 10 10 10 10

Scallop shells on sand with  
coral, a few small fragments  
and fish, yellow lump  
sponges

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1875

Date, Sept 25 1893

Time of day, 12 noon: of tide,

Locality, Chesapeake Bay

Exact position, Chumetown Light 5 1/2 miles

Old Point Light 1 3/4 miles

Depth, 19 fathoms

Nature of bottom, soft mud &amp; shells

Dredging instrument used, Beam Trawl

Direction of drift, South ; distance, 1/4 mile

Temperature of air, 82 therm. No.,

" of surface water, 74 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.016, temp., 74

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7220

Barometer reading, 30.02

State of sky, Clear

Direction of wind, S W ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, A. Platt

Name and position of observer, A. N. S. S. S.

NOTES RELATING TO STATION NO. 1870

about 3 bushel of yellow  
lump sponge & scallop shells  
& coral. Spongia. Crabs  
Stems covered with coral  
oyster & hard clam shells,  
sea urchins & spider crabs,  
Jelly crabs fine & badly  
& some of natural look

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1871—

Date, Nov 19<sup>th</sup> 1893

Time of day, 11.45 AM of tide. Ebb

Locality, Chesapeake Bay

Exact position, Smith Pt Lt. S. 7 mi. S. W.

3/4 mi. S. W. of Smith Pt. Lt. S. W. 7 miles

Depth, 7 fathoms and 2 ft

Nature of bottom, hard

Dredging instrument used, Beam Trawl

Direction of drift, S W ; distance, 1/2 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, NNE ; force, 5

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U. S. Fish Hawk

Service to which attached, U. S. Fish Hawk

Name and rank of commanding officer, R. P. Rogers

Smith Pt. Lt.

Name and position of observer, C. H. Chapman

Smith Pt. Lt.

NOTES RELATING TO STATION NO. 1871

Trawl was torn & most of  
material lost. but recovered  
about 1/2 pck of Coral sponge,  
a few crabs & shrimp,

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1872

Date, Nov 19<sup>th</sup> 1893

Time of day, 12.05 PM, of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smiths Pt. S 1/4 W 1/4 N 3/4 W  
3 1/4 miles  
vicinity of N. 5 1/2 W 1/4 N 7 miles

Depth, 8 fathoms

Nature of bottom, hard

Dredging instrument used, Oyster Dredge

Direction of drift, S W ; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0

temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, N N E ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Fish Com.

Name and rank of commanding officer, A. Platt

Lieut. U. S. Navy

Name and position of observer, J. H. McAllister

NOTES RELATING TO STATION NO. 1872

Obtained one Oyster 1/2 bush  
of Coral Sponge & several small  
stones the largest weighing about  
8 lbs

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1873

Date, Apr 19 " 1893

Time of day, 12:20 PM : of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smiths Pt Lt 4 1/2 N x 7 1/2 W  
2 miles  
Wicomico Lt 4 1/2 S x 7 1/2 W 7 1/2 miles

Depth, 10 fathoms

Nature of bottom, Sticky

Dredging instrument used, Oyster dredge

Direction of drift, S. 1/2 E : distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0

temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, NNE : force, 5

Rain,

Direction of surface current, S : force, 2

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, R. J. Platt

Name and position of observer, C. H. Chandler

NOTES RELATING TO STATION NO. 1573

Obtained 1/2 bushel Seal  
Sponge & dead grass, also  
three live Oysters with spat  
& a few dead Oyster shells

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1874

Date, Nov 19 " 1873

Time of day, 2.45 PM, of tide, Flood

Locality, Chesapeake Bay miles

Exact position, Smiths Pt S 44° W 11 1/2 miles

Wicomico S 44° W 1/2 N 7 1/16 miles

Depth, 15 faths

Nature of bottom, Sticky

Dredging instrument used, Ope 5. Dredge

Direction of drift, N ; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1013.0

temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, Cloudy

Direction of wind, NNE ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, R. Platt

Lieut. Zeph. C. Smith

Name and position of observer, O. H. Cleveland

State of sky

NOTES RELATING TO STATION NO. 1874

Gudge came up full of  
black mud and little  
dead grass

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1875

Date, March 19<sup>th</sup> 1894

Time of day, 11:50 A.M.; of tide, Ebb

Locality, Lynnhaven Bay

Exact position, Cape Henry S. H. E. S. E.

Thimble Shoal N. W.

Depth, 4 fathoms and 1 ft.

Nature of bottom, hard - sticky

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, S. S. E. ; distance, 1/8 mile

Temperature of air, 79 therm. No.,

" of surface water, 54 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1014.6 temp., 52

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.06

State of sky, Clear

Direction of wind, S. S. W. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, R. Platt

St. Asst

Name and position of observer, Ch. Cleveland  
Mate Asst

NOTES RELATING TO STATION NO. 1875

a few crabs. 1 small flounder  
about a quart of shrimp, and  
a few dead sea shells.  
a little sea grass. Gorgonia  
& Bryozoa

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1676

Date, March 19<sup>th</sup> 1892

Time of day, 12 05 PM, of tide, Ebb

Locality, Lynnhaven Bay

Exact position, Cape Henry Light S E &amp; E 4 E

Thimble Shoal Light N 45 W x N

Depth, 5 fath

Nature of bottom, soft &amp; sticky

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, N E ; distance, 1/8 mile

Temperature of air, 79 therm. No.,

" of surface water, 52 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1014.6 temp., 52

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.06

State of sky, Clear

Direction of wind, S E &amp; E ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, R. R. R.

Lieut. Z. J. R.

Name and position of observer, Off. Assistant

Master Z. J. R.

NOTES RELATING TO STATION NO. 1876

one young Hake about 6 inches  
long - 5 young Flounders  
2 Crabs - 3 small Hake about  
2 1/2 inches in length  
Three kinds of Flounders

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1877*  
 Date, *March 28<sup>th</sup> 1894*  
 Time of day, *11.08 am*; of tide, *Flood*  
 Locality, *Chesapeake Bay (mouth)*  
 Exact position, *Cape Henry Light bearing*  
*S 3 1/2 E (true) dist. 1 1/2 miles*  
 Depth, *11 fathoms*  
 Nature of bottom, *Sticky*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, *N 1/2 W*; distance, *1/2 mile*  
 Temperature of air, *40* therm. No.,  
 " of surface water, *47* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1016.0* temp., *47*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.71*  
 State of sky, *Clear*  
 Direction of wind, *ESE*; force, *3*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U. S. Fish Commission*  
 Name and rank of commanding officer, *R. Platt*  
*Lieut. U.S.N.*  
 Name and position of observer, *C. H. Cleveland*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1877-

Obtained: about one bushel of  
yellow lump sponge - 3 Skates  
1 young White anemone  
about a dozen in length  
2 qts of star fish (small size)  
a few spot fish - Shrimps  
a few lumps of Coral  
a few Hermit crabs - Paper fish  
(one) a few young sea urchins  
and sea urchins  
1 diminutive Hermit

✓

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1898

Date, Mar 28 1894

Time of day, 11:40 A.M. of tide, Flood

Locality, Chesapeake Bay (mouth)

Exact position, Cape Henry Light bearing

S 45° 30' (mag) &amp; dist 1 3/4 miles

Depth, 11 fathoms

Nature of bottom, Shelly

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, S 1/2 E; distance, 1/2 mile

Temperature of air, 40

therm. No.,

" of surface water, 47

" at depth of fathoms,

" at bottom,

Density at surface, 1016.0

temp., 47

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.71

State of sky, Clear

Direction of wind, ESE; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, E. P. Smith

Name and position of observer, Wm. H. Henshaw

Wm. Henshaw

NOTES RELATING TO STATION NO. 1576

Obtained about a bushel of  
yellow lump sponge. 35 Kater  
4 young Water snakes  
a snake in length 2 ft.  
1 Spot fish - a few feet of  
small Star fish - 2 Spine Cuck  
and a few Hermit Crabs

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1879

Date. October 28<sup>th</sup> 1894

Time of day. 11.55 AM: of tide, Flood

Locality. Chesapeake Bay (mouth)

Exact position. Cape Henry Light bearing

$5\frac{1}{2}$  E (mag) dist 14 miles

Depth. 11 fathoms and 5 ft

Nature of bottom. hard

Dredging instrument used. 7 ft Beam Trawl

Direction of drift.  $N\frac{1}{2}W$ : distance. 1 mile

Temperature of air. 46 therm. No.,

" of surface water. 47 "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1016.0 temp., 47

" at depth of fathoms. "

" at bottom. "

Number of salinometer.

Barometer reading. 30.71

State of sky. Clear

Direction of wind. ESE: force, 3

Rain.

Direction of surface current. : force,

" of bottom " : force,

Name of vessel. Fish Hawk

Service to which attached. U.S.F.C.

Name and rank of commanding officer. R. R. R. R.

Name and position of observer. J. A. J. A.

Notes.

NOTES RELATING TO STATION NO. 1879

Obtained  $\frac{1}{2}$  bushel of yellow  
lump sponge. a number of Pipe  
fish - young Aol. young *Acropora*  
a few shrimp & star fish. also  
Hermit Crab & Conch

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1880*  
 Date, *Mar 28* 189*4*  
 Time of day, *1230 PM*; of tide, *Low*  
 Locality, *Chesapeake Bay*  
 Exact position, *Cape Henry Et H<sup>o</sup> bearing*  
*SE x E 3/4 E mag, dist 2 1/4 miles*  
 Depth, *6 fathoms*  
 Nature of bottom, *hard*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, *N 71* : distance, *1/2 mile*  
 Temperature of air, *46* therm. No.,  
 " of surface water, *46* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1015.0* temp., *46*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.71*  
 State of sky, *Clear*  
 Direction of wind, *ESE* ; force, *3*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U S F C*  
 Name and rank of commanding officer, *R Platt*  
*St. Asst Comdr*  
 Name and position of observer, *William O*  
*Thompson*

NOTES RELATING TO STATION NO. 752

Obtained 3 *Platys* a very  
young *Gadus* - 10 inches long.  
Shrimps, Hermit Crab, Silver Sides  
Pipe fish

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1881*  
 Date, *Mar 28 - 1894*  
 Time of day, *12 50 PM*; of tide, *Flood*  
 Locality, *Lynn Haven Bay*  
 Exact position *Cape Henry St. Ho. bearing*  
*SSE 1/4 E dist 3 1/2 miles*  
 Depth, *4 fathoms and 3 fms*  
 Nature of bottom, *hard*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, : distance.  
 Temperature of air, *47* therm. No.,  
 " of surface water, *48* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1014.6* temp., *48*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer.  
 Barometer reading, *30.67*  
 State of sky, *Clear*  
 Direction of wind, *SESE*; force, *4*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U.S. Fish Commission*  
 Name and rank of commanding officer, *R. Platt*  
*Lieut. Reg. D. Comdr*  
 Name and position of observer, *C. H. ...*  
*Master Lynn*

NOTES RELATING TO STATION NO. 1851

Octonids - 2 crabs - 4 shrimp;  
gk of shrimp - 6 small crabs -  
a few silver sides - Star fish  
1 Demogaster found

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1882*

Date, *April 24 - 1874*

Time of day, *10:15 am* of tide, *1/2 flood*

Locality, *Vicinity of Point Comfort, Va.*

Exact position, *Back river St. Ho's Thimble Shoal 17-03*

*Thimble Shoal Pt. to Old Pt Comfort St. 49-49*

Depth, *6 - 1*

Nature of bottom, *M. S. M.*

Dredging instrument used, *Beam trawl*

Direction of drift, ; distance,

Temperature of air, *51* therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky, *b, c, d*

Direction of wind, *S, E, W* : force,

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, *Fish Hawk*

Service to which attached, *U. S. Fish Commission*

Name and rank of commanding officer, *R. Platt*

*Lieut. U. S. N. Commanding*

Name and position of observer, *W. E. McPherson*

NOTES RELATING TO STATION NO. 1882

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1883

Date, August 10, 1883

Time of day, 10:20 A.M.; of tide, 1/2 ebb

Locality, Long Beach, Cal.

Exact position, near Fish Hawk Trawl No 21-53

Trawler Steel No. 21-52, 2nd No. 27-52

Depth, 5 - 7

Nature of bottom, soft mud

Dredging instrument used, dredge

Direction of drift, S. by E. ; distance, 1/2 mile

Temperature of air, 58 therm. No.,

" of surface water, 62 "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.0

State of sky,

Direction of wind, N. by E. ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robt. Platt

Lieut. U.S.N. Condor

Name and position of observer, W.C. Walcott

NOTES RELATING TO STATION NO. 1878

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1584*  
 Date. *Aug 18 - 1894*  
 Time of day. *2 PM* : of tide. *High*  
 Locality. *Cholera Bank*  
 Exact position. *ES E 1/2 N along shore*  
*St. John's harbor 12 miles*  
 Depth. *14 fathoms*  
 Nature of bottom. *gravel - coarse*  
 Dredging instrument used. *7 ft Beam Trawl*  
 Direction of drift, : distance.  
 Temperature of air, *75* therm. No.,  
 " of surface water, *71 1/2* "  
 " at depth of fathoms. "  
 " at bottom, "  
 Density at surface. *1023.0* temp., *71 1/2* ...  
 " at depth of fathoms. "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading. *30.02*  
 State of sky. *Cloudy*  
 Direction of wind, *SSW* : force. *4*  
 Rain,  
 Direction of surface current. : force,  
 " of bottom " : force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *USFC*  
 Name and rank of commanding officer. *Robt Platt*  
*Lieut. U.S.N. Comdr.*  
 Name and position of observer, *C. H. (C. H. ...)*  
*Matth ...*

NOTES RELATING TO STATION NO. 1884.

Obtained about a bushel of material, consisting of gravel dead shells. Pebbles & stones small crabs - 2 live Pectons a few star fish & hermit crabs & Skitter Eggs -

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1885

Date. Aug 18<sup>th</sup> 1894

Time of day. 2.30 PM of tide.

Locality, Cholera Bank

Exact position. ESE 1/2 mile from shore

Ship distance 12 miles

Depth, 12 1/2 fathoms

Nature of bottom. gy. s. m. sh.

Dredging instrument used. 7 ft Bean-Trawl

Direction of drift, ; distance.

Temperature of air. 75 therm. No.,

" of surface water, 71 1/2 "

" at depth of fathoms, "

" at bottom, 65 "

Density at surface. 1.023 temp. 71 1/2

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading. 30.02

State of sky. Cloudy

Direction of wind, SSW ; force. 4

Rain.

Direction of surface current, : force.

" of bottom " : force.

Name of vessel. Fish Hawk

Service to which attached. U.S.F.C.

Name and rank of commanding officer. Robt. H. Hatt

Lieut. J. H. Hatt

Name and position of observer. J. H. Hatt

J. H. Hatt

NOTES RELATING TO STATION NO. 1885

Obtained about a bushel of  
material. Consists of one  
great Clam Shell, yellow sponge,  
~~1 small Hake. Crab. 2 Skates~~  
a few Star fish, Sand dollars  
Hermit Crabs, a few small stones,  
1 small Hake about 6 inches in  
length, a few Pipe fish and  
dead small Shells, also for  
Shrimp.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1886*  
 Date, *Aug 18<sup>th</sup> 1894*  
 Time of day, *2.50 PM* of tide.  
 Locality, *Cholera Banks*  
 Exact position, *E 5 5/8 S from Sandy Hook*  
*At ship's distance 12 miles*  
 Depth, *14 fathoms*  
 Nature of bottom, *gr Sand & gravel*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, ; distance,  
 Temperature of air, *75* therm. No.,  
 " of surface water, *71 1/2* "  
 " at depth of fathoms, "  
 " at bottom, *67* "  
 Density at surface, *102<sup>1</sup>3.0* temp., *71 1/2*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *7052*,  
 Barometer reading, *30.02*  
 State of sky, *Cloudy*  
 Direction of wind, *SE* ; force, *4*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " : force.  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robt Platt*  
*Lieut. U.S.N. Comdr*  
 Name and position of observer, *A. H. Chandler*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1882

Collected 1000. Sp. basket  
of material containing the  
Star fish, sand dollars  
and clam shells. 1 flounder  
about 1 ft in length - several  
hermit & spider crabs.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1887.

Date, Aug 18<sup>th</sup> 1894

Time of day, 2:57 P.M. of tide, High.

Locality, Chelsea Bank

Exact position, E. S. E. 1/2 mile from Sandy Hook

At shape of bottom, 50 miles

Depth, 13 1/2 fathoms

Nature of bottom, green mud

Dredging instrument used, 7 ft. Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 71 "

" at depth of fathoms, "

" at bottom, 66 1/2 "

Density at surface, 1.0230 temp., 71

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.02

State of sky, Cloudy

Direction of wind, S S W ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, R. H. Moore

Lieut. Zeph. Crocker

Name and position of observer, C. H. Allen

NOTES RELATING TO STATION NO. 1887

Obtained about 2 lbs  
Mollusks consisting of 3 rocks  
weighing about 50 lbs each  
Fossil from top a considerable  
quantity of star-jack were  
caught. 2 *Theraps* / small  
Shrimp - 1 Hake about 2 inches  
in length. 2 fox bones (paw)  
and dead Ocean Skink

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1888

Date, Aug 23 1894

Time of day, 11 A M. : of tide, 666.

Locality, Long Island Sound

Exact position, Plum Island Light

Lynn Pt. Light

Depth, 17 1/2 fathoms

Nature of bottom, Gr Sand &amp; pebbles

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance.

Temperature of air, 69 therm. No.,

" of surface water, 70 "

" at depth of fathoms, "

" at bottom, 69 1/2 "

Density at surface, 1022 temp., 70

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.11

State of sky, Clear

Direction of wind, WSW ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Comm.

Name and rank of commanding officer, Lieut. Egan

Name and position of observer, Off. Clearman's Mate Egan

NOTES RELATING TO STATION NO. 1885

Obtained a large sack of material  
consisting of yellow lump sponge  
Kelp - Coral and a few small  
crabs, one of the latter being  
of Trachinotus species.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1889*  
 Date, *Aug 28<sup>th</sup> 1894*  
 Time of day, *11.25 AM* of tide, *6<sup>th</sup> 1/2*  
 Locality, *Long Island Sound*  
 Exact position, *Long beach Bar Lt & Plum Lt 79° 04'*  
*Plum Island Lt & Lynce Pt Lt 96° 34'*  
 Depth, *17 fms*  
 Nature of bottom, *gy S & Pbbles*  
 Dredging instrument used, *Sledge*  
 Direction of drift, : distance,  
 Temperature of air, *69* therm. No.,  
 " of surface water, *70* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1022.0* temp., *70*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading, *30.11*  
 State of sky, *Clear*  
 Direction of wind, *W S W* : force, *3*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U S F C*  
 Name and rank of commanding officer, *Robt P. Smith*  
*Lieut. Jnr*  
 Name and position of observer, *C. H. Cleveland*  
*Master*

NOTES RELATING TO STATION NO. 187

Obtained 1 small fish, consisting of 1 small crab and 1 small fish. - Skate eggs.  
P. 187 - small fish. - - small

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1870*Date, *Aug 23<sup>rd</sup> 1894*Time of day, *11.45 am* : of tide, *ebb*Locality, *Long Island Sound*Exact position, *Long Beach Bar Light Plum 1 Lt 77.00**Plum 1 Lt Lynce Pt Lt 98° 47'*Depth, *18 fathoms*Nature of bottom, *gr sand & sh.*Dredging instrument used, *7 ft Beam Trawl*

Direction of drift, : distance.

Temperature of air *74* therm. No.," of surface water, *70* "

" at depth of fathoms, "

" at bottom, *69 1/2* "Density at surface, *1.022* temp., *73*

" at depth of fathoms, "

" at bottom, "

Number of salinometer, *7052*Barometer reading, *30.11*State of sky, *Clear*Direction of wind, *W S W* ; force, *3*

Rain.

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, *Fish Hawk*Service to which attached, *U. S. Fish Comm.*Name and rank of commanding officer, *Robert H. Allen**Commanding Officer*Name and position of observer, *W. H. Henshaw**Master**99-14 R**3 16*

NOTES RELATING TO STATION NO. 170

Stained skin - pack of material  
consisting of yellow string sponge  
& gin & line & sundries - Keep  
1 young scap - Spider scap  
a few young sea urchins

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1891*  
 Date, *Aug 28 1894*  
 Time of day, *12 Noon* : of tide, *Ebb*  
 Locality, *Long Island Sound*  
 Exact position, *One hour 10. 20th St. N.Y.C.*  
*Clear. Isl. St. Kayden 20th St. N.Y.C.*  
 Depth, *18 fathoms*  
 Nature of bottom, *gr. Sand & shells*  
 Dredging instrument used, *with beam trawl*  
 Direction of drift, : distance,  
 Temperature of air, *74* therm. No.,  
 " of surface water, *70* "  
 " at depth of fathoms, "  
 " at bottom, *69* "  
 Density at surface, *1022.0* temp., *70*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *75*  
 Barometer reading, *30.1*  
 State of sky, *Clear*  
 Direction of wind, *W SW* ; force, *3*  
 Rain,  
 Direction of surface current, : force,  
 " of bottom " : force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *USFC*  
 Name and rank of commanding officer, *Robt Platt*  
*Lieut. U.S.N.*  
 Name and position of observer, *C. H. Cleveland*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1891

Obtained about 1/2 bushel of  
material - consisting of yellow  
sponge - a few small squid  
small star fish - and many  
shells. Spiders, beet, young star  
fish, butterfly fish, etc. 1/2 bushel  
small shells.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1892

Date, Aug 23 1894

Time of day, 12.20 PM. of tide, Flood

Locality, Long Island Sound

Exact position, Long beach. Bear to L Plum Pt 76° 21'

Plum Pt to R. Lynce Pt 102° 02'

Depth, 19 1/2 fathoms

Nature of bottom, gr sand & shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 70 "

" at depth of fathoms, "

" at bottom, 69 1/2 "

Density at surface, 1022.6 temp., 70

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.11

State of sky, Clear

Direction of wind, W SW ; force, 2

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Lt. J. W. Smith

Lt. J. W. Smith

Name and position of observer, Ch. Cleveland

Wm. H. H. H.

NOTES RELATING TO STATION NO. 1892

Obtained about  $\frac{1}{2}$  bushel of  
material. Consisting of small  
sponges, Spider Cots, cotton  
finger sponges. Trawled was taken  
and some of material lost

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1893*  
 Date, *Aug 28<sup>th</sup> 1894*  
 Time of day, *1.35 P.M.* of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Plum-Harbor Lt. 40° 50'*  
*North of Taylor's Lt. 78° 15'*  
 Depth, *38 fathoms*  
 Nature of bottom, *gr Sand & blk specks*  
 Dredging instrument used, *Dredge*  
 Direction of drift, ; distance.  
 Temperature of air, *80* therm. No.,  
 " of surface water, *69* "  
 " at depth of fathoms. "  
 " at bottom, *70* "  
 Density at surface, *1022* temp., *69*  
 " at depth of fathoms. "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading, *30.11*  
 State of sky, *Clear*  
 Direction of wind, *N E N* ; force, *3*  
 Rain.  
 Direction of surface current. ; force,  
 " of bottom " ; force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U.S.N.*  
 Name and rank of commanding officer, *Robt Platt*  
*Lt. U.S.N.*  
 Name and position of observer, *Wm. H. C. ...*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1893

Obtained about a bucket of  
sand and gravel - a few  
sand dollar shells

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1894*  
 Date, *Aug 23 1894*  
 Time of day, *1.50 PM*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Plum Gut Light. LT 42, 45*  
*Plum Island Light. LT 42, 45*  
 Depth, *53 fathoms*  
 Nature of bottom, *fine sand*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, *drift*; distance, *drift*  
 Temperature of air, *78* therm. No.,  
 " of surface water, *69* "  
 " at depth of fathoms, "  
 " at bottom, *47* "  
 Density at surface, *1042.0* temp., *69*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading, *30.10*  
 State of sky, *Clear*  
 Direction of wind, *West*; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *USC*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut. J. W.*  
 Name and position of observer, *E. H. Cleveland*  
*Mat. J. W.*

NOTES RELATING TO STATION NO. 1894

Obtained about one bushel of  
material consisting of crabs  
Skates: *Filundus*. Hake  
Sea Robins. Mottled Squire

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1895

Date, Aug 23 1894

Time of day, 2,30 PM ; of tide, Flood

Locality, Long Island Sound

Exact position, Plum Island Light  $48^{\circ} 26'$ New London, Conn.  $74^{\circ} 55'$ 

Depth, 22 fathoms

Nature of bottom, gr sand &amp; pebbles

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 78 therm. No.,

" of surface water, 69 "

" at depth of fathoms, "

" at bottom, 70 "

Density at surface, 1022.2 temp., 69

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.10

State of sky, Clear

Direction of wind, N.E. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U.S. Fish Commission

Name and rank of commanding officer, Lieut. J. H. Brown

Lieut. J. H. Brown

Name and position of observer, H. H. Henshaw

H. H. Henshaw

NOTES RELATING TO STATION NO. 1895

Obtained about 1/2 bushel of  
material consisting of  
Conchs - Frinella - Clam shells  
Skates - Shells - Sand - etc.  
Hermit Crabs

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1896*  
 Date, *Aug 23" 1894*  
 Time of day, *5 PM* ; of tide, *High*  
 Locality, *Long Island Sound*  
 Exact position, *Run 1 mile from 20° 26'*  
*Lat 74° 15' 35"*  
 Depth, *19 fathoms*  
 Nature of bottom, *gr. sand & sh. spec.*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, ; distance,  
 Temperature of air, *79* therm. No.,  
 " of surface water, *69* "  
 " at depth of fathoms, "  
 " at bottom, *69* "  
 Density at surface, *1022* temp., *69*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading, *30.10*  
 State of sky, *Clear*  
 Direction of wind, *West* ; force, *3*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *"Fish Hawk"*  
 Service to which attached, *U.S. Fish Commission*  
 Name and rank of commanding officer, *John H. Hall*  
*Ensign*  
 Name and position of observer, *C. N. Cleveland*  
*Master*

NOTES RELATING TO STATION NO. 1896

Obtained about 12 bushel of  
material consisting of Skates  
Hundred Head Shells. Crabs

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1897*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *3.15 PM*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Gardner Pt Plum I 23° 43'*  
*Plum I & Lynde Pt 108° 03'*  
 Depth, *19 fathoms and 4 ft*  
 Nature of bottom, *hard*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, ; distance,  
 Temperature of air, *79* therm. No.,  
 " of surface water, *69* "  
 " at depth of fathoms, "  
 " at bottom, *79* "  
 Density at surface, *1022* temp., *69*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading, *30.10*  
 State of sky, *Clear*  
 Direction of wind, *West*; force, *—*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *"Fish Hawk"*  
 Service to which attached, *U.S. F.C.*  
 Name and rank of commanding officer, *Robt Platt*  
*LT Jr*  
 Name and position of observer, *Off Clearman*  
*Master (U.S.N.)*

NOTES RELATING TO STATION NO. 1897

Obtained about  $\frac{1}{2}$  bushel of  
material. Consisting of small  
Hundred Squid Eggs - Dead  
shells - yellow thing spongy  
Teal got caught, supposed  
Rock

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1898*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *3.30 PM*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Gardner Is to Plum I 23° 00'*  
*Plum Island to Lynde Pt 109° 25'*  
 Depth, *19 fathoms*  
 Nature of bottom, *hard*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, ; distance,  
 Temperature of air, *79* therm. No.,  
 " of surface water, *69* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1022* temp., *69*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer, *7052*  
 Barometer reading, *30.10*  
 State of sky, *Clear*  
 Direction of wind, *W*; force, *4*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U.S. Fish Com.*  
 Name and rank of commanding officer, *Robt Platt*  
*Lt U.S.N.*  
 Name and position of observer, *Chas. Cleveland*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1898

Obtained about  $\frac{1}{2}$  basket of  
material consisting of Skates  
crabs Dead Shells - yellow  
string sponge - Hermit crabs